

AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A material of a positive electrode for a secondary lithium cell, ~~characterized in that the material is~~ comprising a particulate active material of positive electrode for a secondary lithium-ion cell represented by a general formula, $\text{Li}_a\text{Co}_b\text{A}_c\text{B}_d\text{O}_e\text{F}_f$ (A is magnesium ~~Al or Mg~~, B is zirconium, ~~a group IV transition element~~, $0.90 \leq a \leq 1.10$, $0.97 \leq b \leq 1.00$, $0.0001 \leq c \leq 0.03$, $0.0001 \leq d \leq 0.03$, $1.98 \leq e \leq 2.02$, $0 \leq f \leq 0.02$, and $0.0001 \leq c + d \leq 0.03$), ~~and that~~ wherein the element A, element B and fluorine are evenly present in the a vicinity of ~~the~~ particle surfaces.

2. (Currently amended) The material of a positive electrode for a secondary lithium cell according to claim 1, ~~characterized in that~~ wherein at least a part of said element represented by A or B contained in said particulate active material of ~~a~~ the positive electrode for ~~a~~ the secondary lithium-ion cell has substituted for cobalt atoms in the particles to form a solid solution.

3. (Currently amended) The material of a positive electrode for a secondary lithium cell according to claim 1, ~~characterized in that~~ wherein the atomic ratio of said element A to said element B is $0.33 \leq c/d \leq 3.00$, provided that $0.002 \leq c + d \leq 0.02$.

4. (Currently amended) The material of a positive electrode for a secondary lithium cell according to claim 1, ~~characterized in that the~~ wherein an abundance of ~~the~~ a single-component oxide of said element B is 20% or less.

5-6. (Canceled)

7. (Currently amended) The material of a positive electrode for a secondary lithium cell according to claim 1, ~~characterized in~~

~~that~~ wherein no diffraction peaks are observed at 2θ of $28 \pm 1^\circ$ in a high-sensitivity X-ray diffraction spectrum using Cu-K α ray.

8. (Currently amended) The material of a positive electrode for a secondary lithium cell according to claim 1, ~~characterized in that~~ wherein said particulate active material of ~~a~~ the positive electrode for ~~a~~ the secondary lithium-ion cell consists of secondary particles each formed by coagulation of 10 or more primary particles, and ~~the~~ an average particle diameter of said secondary particle is from 2 to 20 μm .

9. (Currently amended) A method of producing a material of a positive electrode for a secondary lithium cell ~~where the material is comprising~~ a particulate active material of a positive electrode for a secondary lithium-ion cell represented by a general formula, $\text{Li}_a\text{Co}_b\text{A}_c\text{B}_d\text{O}_e\text{F}_f$ (A is magnesium ~~Al or Mg~~, B is zirconium ~~a group-IV transition element~~, $0.90 \leq a \leq 1.10$, $0.97 \leq b \leq 1.00$, $0.0001 \leq c \leq 0.03$, $0.0001 \leq d \leq 0.03$, $1.98 \leq e \leq 2.02$, $0 \leq f \leq 0.02$, and $0.0001 \leq c + d \leq 0.03$), ~~and~~ where the element A, element B and fluorine are evenly present in ~~the~~ a vicinity of ~~the~~ particle surfaces, ~~characterized in that~~ wherein the material is composed of secondary particles each formed by coagulation of 10 or more primary particles and ~~that~~ a cobalt raw material at least containing either cobalt oxyhydroxide or cobalt hydroxide, lithium carbonate, and a raw material comprising said element A and element B are mixed and fired.

10. (New) A material of a positive electrode for a secondary lithium cell, comprising a particulate active material of positive electrode for a secondary lithium-ion cell represented by a general formula, $\text{Li}_a\text{Co}_b\text{A}_c\text{B}_d\text{O}_e\text{F}_f$ (A is Al or Mg, B is a group-IV transition element, $0.90 \leq a \leq 1.10$, $0.97 \leq b \leq 1.00$, $0.0001 \leq c \leq 0.03$, $0.0001 \leq d \leq 0.03$, $1.98 \leq e \leq 2.02$, $0 < f \leq 0.02$, and $0.0001 \leq c + d \leq 0.03$), said element A, element B and fluorine being evenly present in the vicinity of the particle surfaces.